Manitoba

Annual Report
1988- 89

ENVIRONMENT AND
WORKPLACE SAFETY AND HEALTH

91-05363/

Manitoba

Minister of
Environment

Room 346
Legislative Building
Winnipeg, Manitoba, Canada
R3C 0V8

(204) 945-3522

March, 1991

His Honour
The Honourable George Johnson
Lieutenant-Governor of Manitoba

Your Honour:

It is my pleasure to present the 1988-89 Annual Report of the Department of Environment and Workplace Safety and Health. This report details the Department's accomplishments and activities for this period.

Respectfully submitted,

J. Glen Cummings
Minister of Environment

Manitoba

Deputy Minister
of Environment

Room 350
Legislative Building
Winnipeg, Manitoba, Canada
R3C 0V8

(204) 945-8829

March, 1991

The Honourable J. Glen Cummings
Minister of Environment

Dear Sir:

It is my pleasure to present you the Annual Report of Manitoba Environment and Workplace Safety and Health for the fiscal year ending in March 31, 1989. This report provides a comprehensive review of all aspects of Department activities for that period.

I would like to take this opportunity to compliment all Department staff for their dedication and efforts during the past year and also acknowledge the cooperation of federal, municipal and other provincial government departments.

Respectfully submitted,

Norm Brandson
Acting Deputy Minister of Environment

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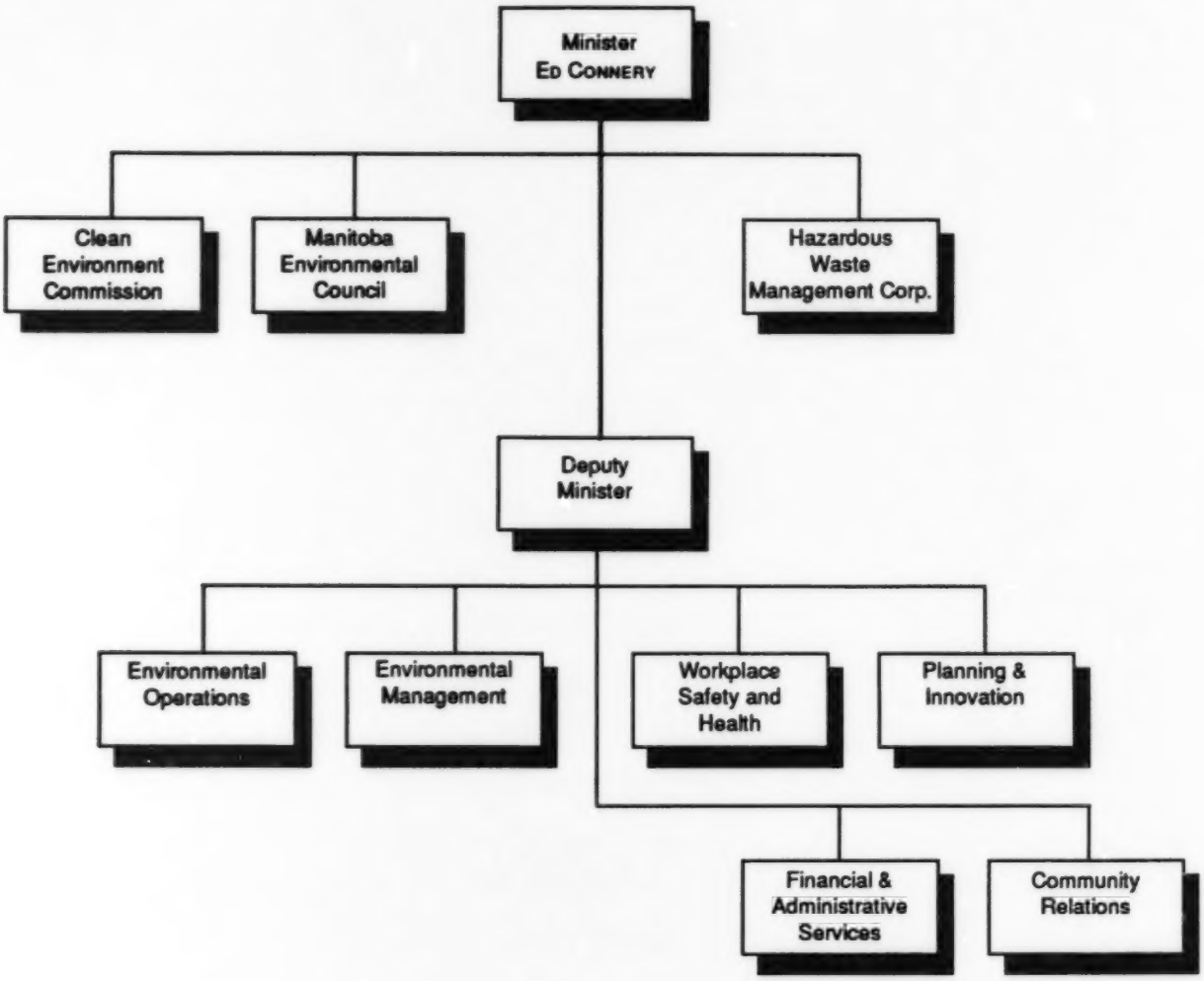
Aussi disponible en français

ORGANIZATIONAL CHART



INTRODUCTION

Manitoba Environment and Workplace Safety and Health was created in 1983. The Department's major operating components are the Environmental Management Division and the Workplace Safety and Health Division. The Department also has a Worker Advisor Office which assists injured workers with their Workers Compensation Board claims; and three support branches - Finance and Administration; Planning, Research and Evaluation; and Community Relations.

The mission of the Department of Environment and Workplace Safety and Health is:

to protect and enhance the quality of the working, public and natural environments for the health, safety and well-being of the present and future generations of Manitobans and to provide the opportunity for all people to exercise influence over the quality of their living and working environments.

The Department's main areas of responsibility include:

1. the establishment and refinement of basic legislation and regulations governing the natural and working environments;

2. the enforcement of compliance with the legislative framework; and

3. ensuring that the objectives of maintaining healthy natural, public and working environments are met in Manitoba through appropriate strategies.

The Department serves a diverse client group, ranging from the public, in general, workers, unions, companies and special interest groups and associations. Issues addressed by the Department range from localized to global concerns and relate directly to economic and social development initiatives. To a large extent, these issues are driven by factors outside the Department's control.

To enable the Department to anticipate and react positively to change, a comprehensive strategic planning process was initiated in 1985. The strategic plan identifies the Department's long-term objectives and outlines strategies to attain these objectives. The strategic plan provides a revised assessment of the departmental external environment, which has seen a dramatic increase in public awareness and concern over the quality of the natural and working environments.

Prevention is the basic concept underlying the Department's approach to workplace and environmental programs. It works best in an atmosphere of cooperation supported by legal sanctions as required. Since 1985, legislative and regulatory initiatives and amendments have incorporated the concept of cooperative decision making in the transport and handling of dangerous goods, in the management of hazardous wastes, and in the control of noise and chemical hazards in the workplace. The Department has established a framework for the comprehensive "cradle-to-grave" management of hazardous substances for both the natural and working environments, which we believe will avoid the tragic and costly disasters that have affected other jurisdictions.

The Department is placing a strong emphasis on measures to promote integrated decision making. The Environment Act, which came into effect on March 31, 1989 replacing The Clean Environment Act, will improve environmental protection in Manitoba by ensuring that environmental concerns are integrated into the planning stage of all new developments. The Act requires that all environmentally significant developments undergo an assessment and receive an environmental licence prior to construction or operation. The Act also establishes a public registry system where information relating to developments under review is publicly available.

Another major effort for the Department over the past several years has been the development of the Workplace Health Hazard Regulation, which complements the Canada-wide Workplace Hazardous Materials Information System. These two occupational health efforts are part of a major program to prevent occupational illness in Manitoba. Some organizational changes have been made which will strengthen the Department's compliance and enforcement functions. In Workplace Safety and Health, for example, the Inspectorate has been organized into teams which will allow for more systemic monitoring of industries and a more effective delivery of the legislation.

The Department is placing a priority on the development of improved information systems. This will ensure a better assessment of the quality of the natural and working environments.

ENVIRONMENTAL MANAGEMENT DIVISION

The ENVIRONMENTAL MANAGEMENT DIVISION administers and enforces The Clean Environment Act and its seventeen regulations; four regulations with 17 divisions under The Public Health Act; The Dangerous Goods Handling and Transportation Act; Clean Environment Commission Orders related to specific discharges to the air, water and soil,; and the Environmental Assessment and Review Process. The Division also provides technical and support services to the Clean Environment Commission, the Manitoba Environmental Council, other government departments and the public.
The Environmental Management Division is divided into two operational branches:

ENVIRONMENTAL CONTROL SERVICES provides technical evaluation and assessment of site-specific discharges, regulation enforcement and public health inspection. The subdivisions of this Branch are: Environmental Control Programs; Inspection Services; and the Pesticide Control Program. Radiation Protection Services are provided under contract by the Manitoba Cancer Treatment and Research Foundation.

ENVIRONMENTAL MANAGEMENT SERVICES provides scientific services required for the effective delivery of divisional programs, as well as direct delivery of programs relating to the state of the environment, standard setting, research and dangerous goods. The Branch conducts monitoring to set standards for environmental quality and provides laboratory services which supply the analytical needs of the Division. The subdivisions of this Branch are: Environmental Impact Assessment; Environmental Standards and Studies; Hazardous Waste / Dangerous Goods; W.M. Ward Technical Services Laboratory; and Special Projects.

ENVIRONMENTAL CONTROL SERVICES

DIRECTOR: CARL B. ORCUTT
1 Administrative Secretary

ENVIRONMENTAL CONTROL PROGRAMS

CHIEF: L. STRACHAN
3 Section Heads
11 Environment Officers
4 Environment Engineers

The objectives of Environmental Control Programs are as follows:

- to provide management of and direction to the Air Pollution Control, Water Pollution Control and Waste Management Sections of the Environmental Control Services Branch.

- to implement programs with respect to The Environment Act and portions of the Public Health Act with respect to regulations, permits, licences, registrations, monitoring and assessment and enforcement.

- to provide technical support to the Clean Environment Commission, the Branch and the Department.

During 88/89 the main focus was the implementation of The Environment Act and establishment of required policies and procedures respecting the Act.

The Environment Act requires suspensions to licences granted be recorded in the Annual Report. Accordingly the following suspensions were granted in 88/89:

- June 14/88 to Burns Meats, Brandon; suspending the odour limit and housekeeping requirement;

- May 27/88 to Pioneer Metals; suspending total cyanide limit in Licence;

- June 3/88 to Pioneer Metals; suspending total cyanide limit in Licence;

- June 21/88 to Pioneer Metals; suspending total cyanide limit in Licence;

- June 30/88 to RM of Hanover; suspending lagoon Licence to allow use of lagoon effluent for irrigation;

- July 5/88 to Pioneer Metals; suspending total cyanide limit in Licence;

- July 19/88 to Pioneer Metals; suspending total cyanide limit in Licence;

- July 25/88 to Mulder Construction; suspending prohibition of weekend operations of quarry;

- Aug 26/88 to Village of Teulon; suspending discharge time period in Licence on lagoon;

- Sept 27/88 to City of Thompson; suspending lagoon Licence;

- Oct 3/88 to Hadiken Concrete & Supply; suspending time of operation prohibition in quarry Licence;

- Oct 17/88 to Village of Gilbert Plains; suspending discharge time periods in Licence;

- Oct 20/88 to Inco Ltd.; suspending blasting and noise limits in Licence;

- Oct 25/88 to Camp Ames; suspending total coliform limit in Licence;

- Nov 3/88 to Town of Swan River; suspending total coliform limit and discharge time prohibition in Licence;

- Nov 28/88 to RM of Morris; suspending limits and discharge time prohibition in Licence;

- Jan 17/89 to Simplot Chemicals; suspending discharge requirements in Licence.

ENVIRONMENT ACT

ACTIVITY SUMMARY	1988/89
Proposals received	71
Licenses issued	53
Public Hearings held	11

1. WATER POLLUTION CONTROL

The responsibilities of Water Pollution Control concern the protection of the aquatic ecosystem and groundwater and the provision of safe drinking water supplies.
These responsibilities are addressed by administering the provisions of The Environment and Public Health Acts and their regulations.

The activities of Water Pollution Control include:

- advising the the Clean Environment Commission and the Minister on technical aspects of wastewater treatment and disposal;

- recommending conditions to the Director and Minister for use in developing licences, finalizing variations and finalizing appeals;

- monitoring wastewater discharges to determine the degree of compliance with Environment Act Licences;

- evaluating proposed water and wastewater works for public health concerns, in preparation for approval by the Minister of Health;

- monitoring new water and wastewater discharges to determine the degree of compliance with Ministry of Health approval;

- coordinating the Manitoba Water and Wastewater School and Seminar;

- investigating citizen complaints; and

- providing technical assistance to municipal, provincial and federal governments.

During 1988/89 the focus was on the implementation of the Environment Act.

Water Pollution Control continued to administer the Water and Waste School and Seminar on behalf of the Department.

A) ENVIRONMENT ACT LICENSING

Hearings Attended	3
Environment Act Proposals Received	30
Environment Act Licences Prepared	21

B) PUBLIC HEALTH ACT APPROVALS

Public Health Act Approvals Received	33
Public Health Act Approvals Prepared	7
Public Health Act Reviews Received	9
Public Health Act Reviews Completed	9

C) FIELD WORK

Inspections - Environment Act Licences	334
Inspections - Public Health Act Approvals	62
Inspections - Public Health Operations	41
Inspections - Regulation	1
Inspections - Complaint Investigation	15
Non-enforcement Monitoring	11

D) MISCELLANEOUS

Meetings Attended	110
Requests for Information/Assistance	558
Complaints Received	25

2. AIR POLLUTION CONTROL

The objective of Air Pollution is to ensure a clean, healthy and aesthetically pleasing atmosphere for all Manitobans. This objective is achieved by:

- administering and enforcing provisions of The Environment Act regarding emission of air contaminants;

- inspecting industrial sources of air pollution in the province;

- drafting Licences for issuance by the Director or Minister;

- investigating all air pollution and sound/vibration complaints registered by citizens;

- providing technical assistance to municipal, provincial and federal governments.

The activity level during 1988/89 increased quite

significantly in many areas when compared to previous years. The public are now very aware of environmental issues such as air pollution, especially since smoke, noise, odour and dust are so easily recognizable. The air one breathes is of the utmost importance and if there is any contamination, then one's lifestyle and health are immediately affected. As can be noted from the numbers of complaints received, the public continues to observe more and more objectionable air pollution incidents.

Citizens continue to contact Air Pollution Control staff frequently to indicate their problems from indoor air pollution problems in the home, or some other non workplace setting such as a school or ice arena, and to request information on how to rectify problems with indoor air quality.

The Section has increased its activity in the area of emission inventory, with emphasis being placed on the emissions of SO_2 and onides of Nitrogen but also Particulate and Lead.

AIR POLLUTION CONTROL	1988/1989
Environmental Licences Prepared	12
Public Hearings Attended	3
Inspections Completed	569
Complaints Received	424
Stack Sampling Survey Observed	
a) conducted	0
b) observed	2
Odour Surveys Conducted	129
Visible Emission Surveys Conducted	34
Noise/Vibration Surveys Conducted	85
Requests for Information	470

3. WASTE MANAGEMENT

The Waste Management Section is responsible for providing information and consultation service related to the management of solid wastes generated in Manitoba. In addition, the section is responsible for enforcing the Storage and Handling of Gasoline and Associated Products Regulation.

In 88/89 major changes occurred in the Section due to staff transfers and secondments. The engineer providing technical service to the solid waste disposal ground program was transferred to the Hazardous Waste Section. The Recycling Co-ordinator was seconded to the Planning Division to work on recycling programs; comments on the delivery of these programs appear elsewhere in this report. The responsibility and staff responsible for the Emergency Response Program were transferred to the Hazardous Waste Section. The Hazardous Materials Program was also curtailed with responsibility being transferred to the Hazardous Waste Section and the Hazardous Waste Management Corporation. Major involvement took place respecting technical input to the Canadian Council of Ministers of the Environment.

During the 1988/89 fiscal year, the draft amendments to Manitoba Regulation 97/88R respecting the Storage and Handling of Gasoline and Associated Products continued to be refined.

During the year, Environment Officers inspected 177 new and existing petroleum storage facilities to ensure compliance with the regulation. In addition, inventory balance records were checked at 36 locations. Seven prosecutions were initiated under the regulation and 55 warning tickets were issued. As well, 56 abandonned tank sites were inspected and tanks at 34 abandoned sites were removed.

Registration for 171 new storage tank installations were processed during 1988/89.

Approximately fifty petroleum leaks were reported.

INSPECTION SERVICES

CHIEF: KEN HAWKINS
6 Regional Supervisors
34 District Public Health Inspectors/Environment Officers
4 Administrative Secretaries
2 Half-time Administrative Secretaries
1 Half-time Term Administrative Secretary

Inspection Services is the field component of Environmental Control Services. Public Health Inspectors/Environment Officers from this unit are strategically located throughout Manitoba to carry out programs for preserving the environment and preventing the spread of communicable disease. There are six programs: Food Control, Water Control, Environmental Control, Sanitation, Communicable Disease and Interdepartmental/Intergovernmental.

Program objectives are achieved through:

- regular inspection of food and food-handling establishments including hospitals and personal care homes, bathing premises, non-institutional care facilities, tourist facilities, water supplies and waste disposal grounds;

- responding to public complaints regarding health or environmental concerns;

- providing information on such matters as private water supplies and private sewage disposal systems; and,

- enforcing various Regulations under The Public Health Act, The Environment Act, The Dangerous Goods Handling and Transportation Act, and related local by-laws.

HIGHLIGHTS

During 1988/89 staff of this Section were involved in the ongoing process of regulation review and, in particular, those respecting bathing premises, private sewage disposal systems and waste disposal grounds. In addition, this unit prepared guidelines for food preparation and service at remote tourist camps and for the sale of various foods at temporary food markets. Staff continue to participate and make presentations to various organizations on subjects such as safe food handling, community health programs and emergency response. Continued liaison was provided to industry in the development and sanction of new polyethelene septic tanks and holding tanks for sewage disposal. Inspection Services was heavily involved in the Chilean fruit and Tulip Brand canned bacon recalls that occurred during the year and field staff conducted many emergency inspections of food premises to determine if these foods were available. Product that was found was held for subsequent disposal. A positive factor to these incidents was the establishment of better emergency communications with regional offices through the facsimile machines. This unit participated in a committee to review the monitoring and routine sampling of the City of Winnipeg water supply, which resulted in the transfer of the sampling program to the City with the monitoring being retained by Inspection Services.

The Food Control Program includes all operations where food is handled, prepared, served, or stored and is a high priority for Inspection Services. In all regions, the number of new food service establishments increased substantially this year, and as a result, there was a corresponding increase in the number of inspections in this important segment of the food program. One major concern is that the number of establishments is increasing at a very fast pace, placing increasing demands upon departmental staff.

Staff also participated in a survey to determine bacteriological quality of ground beef and are frequently called upon to investigate complaints regarding foreign matter in foods. In addition to regular operations, staff attended temporary events including Folklorama, Festival du Voyageur, Canadian National Ukrainian Festival, music festivals and various community celebrations held throughout the year. Once again, several Inspection Services staff members attended an extraneous matter in foods seminar sponsored by the Food Science Department of the University of Manitoba. As a general note, field staff attend to fires in food establishments and supervise destruction and ensure salvaged food products are fit and safe for human consumption.

The Water Control Program covers all aspects of water supplies for public consumption and includes sampling of public wells and springs, inspection and monitoring of municipal water supplies and provid-

ing assistance, information and interpretation of analysis to owners of individual private water systems.

In addition to regular inspection of municipal water treatment systems, staff monitor the sampling of these waters for bacteriological analysis and collect samples for chemical analysis from each plant every three years. Problems are being encountered in public water systems in several areas with plants not meeting departmental guidelines, and staff are working with water purveyors to resolve the shortcomings. Inspection Services prepares a yearly statistical report on the bacteriological and chemical quality of water for municipal systems. As part of ongoing training in this program area, several staff attended the Department-sponsored Water and Wastewater School and Seminar. The unit also participates on a committee to develop guidelines for bulk water fill stations and a committee with the City of Winnipeg to establish procedures in the event of an emergency with Winnipeg water supply.

Activities in the Environmental Control Programs include registration and inspection of private sewage disposal systems, livestock production operations, waste disposal grounds and response to complaints respecting litter. Also in this program area, are activities related to the Department's Emergency Response and Dangerous Goods Programs. The Environmental Control program is a high priority area and in 1988/89 activities increased in relation to problems and complaints with private sewage disposal systems, burning and general operational problems at waste disposal grounds, and odours and discharge of wastes from livestock operations. The number of litter complaints increased this year accounting for considerable staff involvement and effort to resolve the problems. Staff are involved in the response and investigation of environmental accidents, and in particular, in those in more remote areas where a lead role is assumed due to the proximity of the staff member to the incident. Inspection Services also was actively involved with Manitoba Natural Resources, Parks Branch in the development of guidelines and procedures for private sewage disposal in the Whiteshell Provincial Park.

The Sanitation Program focuses on those areas where the public is accommodated either for recreational activities or for day to day living in rental accommodations. Key areas include water quality and safety of bathing premises, tourist camps and investigation of complaints in dwellings and buildings. Once again, there was an increase in activity during the year in response to complaints of unsatisfactory conditions such as deteriorating construction and lack of heat in rental accommodations.

Frequency of inspections of bathing premises increased, although regular sampling of pools using services of a summer student was discontinued. As noted in the statistical summary, there was increased activity related to unsanitary conditions during the year. Unfortunately, due to limited resources and ever-increasing costs of travel etc., Inspection Services is not able to carry out a complete inspection activity towards isolated and remote tourist facilities.

The Communicable Disease Program is undertaken in conjunction with Manitoba Health. The objectives of this program are to aid in determining the cause of food borne or communicable disease outbreaks and contribute to programs which will minimize the recurrence of disease outbreaks. No major food poisoning outbreaks were reported during the year. Staff react quickly to complaints where illness is reported and food is suspected as a probable cause.

The Interdepartmental/Governmental Services Program ensures assistance to other departments, government agencies and the Environmental Management Division. In this area, Inspection Services staff provide comments, opinions and judgements on matters relating to environmental or environmental health concerns. Major areas of involvement are subdivisions and landsplits, planning schemes/by-laws, maintenance of established liaison with municipal authorities and assistance to other sections of the Department. Assessment of proposed subdivisions and landsplits for sewage disposal, water supply, solid waste disposal and environmental impact continue to account for considerable staff time. Demands for service from other departments, agencies, etc., are continuing to have a major impact on the delivery of all of Inspection Services Programs.

Inspection Services is represented on the Health and Environment Review Committee (HERC) which coordinates various matters of mutual concern with Manitoba Health and staff represent the Department on interdepartmental committees including local land use (Rural Development), licencing advisory (Indus-

try, Trade and Tourism) and bloc planning under the Crown Land Classification Committee. In addition, this unit represents the Province on the Environmental Health Advisory Board of the British Columbia Institute of Technology, the Board of Certification of the Canadian Institute of Public Health Inspectors and the National Committee of Food and Regulatory Health.

PESTICIDE CONTROL PROGRAM

CHIEF: K. W. PLEWS
2 Environment Officers
1 Pesticide Clerk

The activities of this program are designed to ensure the safe and effective use of pesticides, in order to minimize adverse effects on public health and the environment.

Activities involve:

- processing pesticide use permit applications and developing terms and conditions of applications;

- analyzing and computerizing pesticide use statistics from post seasonal reports;

- investigation of complaints and enforcement of Manitoba Regulation 94/88R under The Environment Act and Manitoba Regulation 216/87R under The Pesticides and Fertilizer Control Act;

- administering a pesticide container and residue collection and disposal system;

- assisting in the provision of safety training for pesticide dealers and commercial applicators, including governmental applicators;

- assisting municipal corporations in the proper control of nuisance biting insects; and

- assisting municipal corporations and the general public in the safe, effective, environmental control of vertebrate pests.

During 1988/89, staff continued to monitor and enforce pesticide regulations. In addition, more emphasis and time was spent on conducting training and licencing programs. The result appeared to be fewer public complaints, particularly in urban areas.

PESTICIDE PROGRAM ACTIVITY SUMMARY

Program Activity	1987/88	1988/89
Pesticide containers collected - Metal	92,000	81,000
- Plastic	133,000	190,000
Provincial Collection Sites	156	156
Pesticide residue collected by Environmental Control Services	10,000 L	9,430 L
Investigation of Complaints	60	49
Prosecution of Commercial Dealers/Applicators (Successful)	0	2
Pesticide Application Permits issued	234	269
Pesticide Post Seasonal Reports received	234	267
Pesticide Training Courses conducted	28	23

ENVIRONMENTAL MANAGEMENT SERVICES

DIRECTOR: NORM BRANDSON
1 Administrative Secretary

ENVIRONMENTAL IMPACT ASSESSMENT

2 Environment Officers

The Environmental Impact Assessment Section has responsibility to expedite Manitoba's environmental assessment process in accordance with requirements and provisions of the province's Environment Act. The Environment Act legislated in 1988 subjects both public and private sector developments to the assessment process. Public sector developments previously reviewed under the Manitoba Environmental Assessment Cabinet policy of 1975 are included under the Environment Act regulations.

The administration of Manitoba's environmental assessment process involves:

- reviewing preliminary development concepts to assist prospective developers identify potential environmental and socio-economic considerations during the planning stages of their developments;

- defining the scope of any assessments which might be necessary to address those problems revealed through public disclosure and from within government;

- reviewing the completed assessments submitted to the Department by developers seeking licencing approval under The Environment Act to ensure that the documents provide a technically sound basis for both public evaluation of the proposed development's probable implications, and the Department's subsequent decision regarding its approval;

- recommending public hearings on a proposed development, as required, and coordinating comment on completed assessments in accordance with the requirements and provisions of The Environment Act;

- recommending to the responsible approving authority which licence limits, terms, and conditions would be appropriate to ensure that developments proceed in an environmentally acceptable manner, and;

- monitoring approved developments to ensure compliance with any limit, terms, and conditions of an Environment Act licence, and recommending appropriate action in cases of non-compliance.

The fiscal year 1988/89 marked the Environmental Impact Assessment Section's first year of reviewing proposed developments prescribed under the Manitoba Environment Act and associated regulations. With The Environment Act mandate, the level of activity increased significantly from that of the previous year. Several project reviews were carried on from the previous year including the Conowapa Generating Station and associated Bi-pole Transmission Line.

During the fiscal year approximately 25 proposals filed with the Department under the Environment Act were assigned to the Section. Project categories reviewed include transmission lines, transformer stations, Provincial and Municipal highways and roads, pipelines, water diversions, and golf courses and resorts.

The Section continued to work cooperatively with the Provincial Planning Branch in the review of developments of mutual interest to both the Departments of Environment and Rural Development. A part of this involvement included representing the Department of Environment on various Provincially appointed Technical Advisory Committees. The purpose of many of these committees is to assist prospective developers in resolving any conflicts at their planning stages which might otherwise arise during the formal Environment Act assessment licencing process.

In addition to the review of proposals under The Environment Act, the responsibilities of this Section continued to involve the coordination of the interprovincial developments proposed in Saskatchewan and Ontario.

The Section also continued to provide guidance on a number of project referrals from within the Department, other Provincial Departments and the Environmental Protection Service of Environment Canada.

ENVIRONMENTAL STANDARDS AND STUDIES

CHIEF: M. MORRELLI
3 Section Heads
9 Environment Officers
3 Computer Specialists
2 Clerks

The Environmental Standards and Studies conducts research, monitoring, studies and investigations related to the acquisition of knowledge, data or technilogical understanding required to develop and to implement environmental quality objectives for Manitoba. In addition, the unit reviews anr assesses proposals filed pursuant to The Environment Act; drafts licences under The Environment Act for those undertakings assigned by the director to the group; coordinates interdepartmental committees and drafts the State of the Environment Report according to guidelines stated in The Environment Act; provides support services to the Department users of data processing; and maintains contacts with universities and other agencies involved in research activities.

Professional and technical staff with expertise in chemistry, biology, forestry and computer science make up this unit.

During 1988/89, the activities of the Environmental Standards and Studies were organized into three sections:

- Air Standards, Studies and Computer Services
- Water Standards and Studies
- Terrestrial Standards and Studies

1. AIR STANDARD AND STUDIES AND COMPUTER SERVICES

This section carries out studies and support service activities including responsibility for monitoring ambient air quality, performing related air quality investigations and developing air quality levels for protecting the environment and public health. As well, this section includes the computer staff which delivers the information processing services support for the Department.

Objectives are met through the following activities:
- developing and reviewing Manitoba's ambient air quality objectives/guidelines for air pollutants of concern;

- monitoring ambient air quality within urban communities and in the vicinity of specific source industries to ensure adherence to air quality objectives;

- undertaking special projects on air quality monitoring;

- delivering a data processing support service to the Department;

- providing technical support to the Department and the Clean Environment Commission on questions related to ambient air quality and the impact of air pollutants on the environment;

- assisting with the Department's environmental emergency response team; and

- assisting with the review of Environment Act proposals submitted to the Department.

Manitoba air quality is monitored through two major, ongoing endeavours: The National Air Pollution Surveillance (NAPS) Program and the Impingement Monitoring Program.

Under the NAPs program, urban air quality was monitored at a total of four stations. Levels of sulphur dioxide, carbon monoxide, ozone, nitrogen dioxide, total suspended particulates and lead were monitored in Winnipeg and Brandon. Background total suspended particulate conditions for Winnipeg air were determined at a site in St. Francois-Xavier, near Winnipeg.

Air quality studies were conducted near specific air pollution sources under the Manitoba Impingement Monitoring Program. In 1988/89 monitoring activities were conducted in Brandon where a number of air pollutants, including ammonia, were monitored within the vicinity of the Industrial Park. Monitoring for sulphur dioxide was re-established at Flin Flon at one site in December 1988, as well as for particulate and heavy metals.

Data processing activities provided through the computer area included support to the increasing number of Departmental users with microcomputer applications, advice on system solutions, and other general assistance to information processing.

Developmental activities were the redesign of the client database related to operations of The Environment Act, investigation and a business case for an information management system for the Technical Services Laboratory operation, and making enhancements to the municipal wastewater database.

One Technical report was released during the 1988/89 fiscal year.

Technical Reports/Papers Published

Air Standards and Studies. 1988. Manitoba Ambient Air Quality Annual Report - 1986, Department of Environment and Workplace Safety and Health, Air Standards and Studies Section, Report No. 88-02. pp. 45.

2. WATER STANDARDS AND STUDIES

This Section is responsible for the assessment of Manitoba's aquatic environment. Staff monitor surface water, groundwater, sediments, aquatic biota and the impact of effluent on the aquatic environment. The Section collects data and provides consultation on the availability and acceptability of surface water for domestic consumption, recreation, fisheries, industrial use and waste assimilation. These services are provided to government agencies, the Clean Environment Commission, municipalities, industry, consulting firms, special interest groups, and the public.

The following activities are carried out:

- development of ambient water quality objectives, guidelines and standards for Manitoba;

- management of the Canada/Manitoba Water Quality Monitoring Agreement;

- maintaining a surface water quality monitoring network;

- monitoring of surface water on a site specific basis;

- investigation of the effectiveness of point source control strategies in protecting the environment;

- undertaking a classification structure for Manitoba watersheds;

- providing recommendations and scientific support on water quality protection to the Department;

- providing baseline data for industrial and municipal developments and for public inquiries; and

- monitoring of pesticides in surface and groundwaters.

During 1988/89, site specific investigations were carried out in response to specific aquatic problems or requests in Stephenfield Reservoir, Falcon Lake, Winkler Aquifer, and the Northern Flood Agreement area.

A biomonitoring network for collection of environmental contaminants in fish was carried out on the Red, Assiniboine, Souris, Saskatchewan, and Winnipeg Rivers.

Staff were involved in the preparation of the Provincial Land and Water Strategy documents and participated in the associated workshops and meetings.

During 1988/89 fiscal year, staff finalized revisions to the Manitoba Water Quality Objectives and published a background rationale document.

In May, 1985, a research program to assess the potential impact of forest herbicides on adjacent aquatic ecosystems was initiated. This study continued through the 1988/89 fiscal year.

A number of technical reports were released during the 1988/89 fiscal year. Staff provided educational support and information services in the form of lectures, seminars, presentations, and learned papers on aquatic issues. Information was provided to the public in response to concerns on surface water, groundwater, and aquatic life.

List of Reports (1988)

88-1 Brown, D. J. - Bibliography of Water Standards and Studies Publications. 1987.

88-2 Williamson, D. A. - Classification of Clearwater Lake, Manitoba: High Quality Designations, Manitoba Surface Water Quality Objectives.

88-3 Beck, A. E. - Nutrient Enrichment Study of

Shoal Lake (Western Manitoba).

88-4 Beck, A. E. - Recreational Development Capacity Study of Six Lakes in the South Riding Mountain Planning District (1986).

88-5 Williamson, D. A. - Rational Document Supporting Revisions to the Manitoba Surface Water Quality Objectives (1988).

88-6 Williamson, D. A. - Hexazinone Residues in Surface and Groundwater at Two Sites Within Agassiz Provincial Forest, Manitoba.

88-7 Williamson, D. A. - Bacteriological Characteristics of Recreational Beaches, Manitoba. 1984, 1985, 1986, and 1987.

88-8 Williamson, D. A. - Data Supplement: Bacteriological Characteristic of Recreational Beaches, Manitoba. 1984, 1985, 1986, and 1987.

88-9 Keleher, J. J. - Manitoba Aquatic LRTAP Data and Bibliography.

88-10 Hughes, C. E. - A comparison of Ammonia in Acidified and Non-Acidified Water Samples.

88-11 Hughes, C. E. - Interlaboratory Comparisons of Total Ammonia in Water.

- Duncan, D. A. & D. A. Williamson. Water Chemistry/Water Discharge Relationships Within The Churchill River Diversion and Lake Winnipeg Regulation Region, Manitoba, Canada. Ecological Report Series #88-5. Northern Flood Agreement Manitoba.

List of Published Papers (1988)

Betcher, R. N., M. Gascoyen, and D. J. Brown. 1988. - Uranium in Groundwater of Southeastern Manitoba, Canada. Can. J. Earth Sci. 25:2089-2103.

Goldsborough, L. G. and D. J. Brown. 1988. Effect of Glyphosate (Roundup Formulation) on Periphytic Algal Photosynthesis, Bull. Environ. Contam. Toxicol. 41:253-260.

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3. TERRESTRIAL STANDARDS AND STUDIES

Terrestrial Standards and Studies is responsible for concerns related to the land environment. Environmental impacts on vegetation, soils and wildlife are evaluated through studies and monitoring programs. Scientific information is collected, standards are evaluated and consultation services are provided to government agencies, the Clean Environment Commission, industry and the public. The following functions are included:

- monitors the land environment, soil, vegetation and wildlife, to determine the effectiveness of point source control strategies;

- determines the impact of various contaminants or industrial developments on soils, vegetation and wildlife;

- develops guidelines to protect the land environment;

- undertakes special investigations related to the land environment; and

- provides technical assistance to the Department, the Clean Environment Commission, other provincial and federal agencies and the public.

During 1988/89, studies continued on the effects of sulphur dioxide and heavy metal contamination of forest ecosystems in the vicinity of mining smelters at Thompson and Flin Flon. Coniferous seedlings were field tested for effects from metal contaminated soils in Thompson.

The Long Range Transport of Air Pollutants (LRTAP), including acidic deposition or acid rain was addressed through two ongoing monitoring programs. A network of nine terrestrial monitoring sites which were initiated in 1985, was completed. This is a

cooperative federal/provincial network designed to provide an early warning mechanism for potential forest damage from LRTAP. A snow monitoring program to evaluate the effects of LRTAP on snow chemistry, was also continued across Manitoba.

Monitoring of potential soil pollution problems continued throughout 1988/89. Soil pollution concerns from the wood preservative industry of the province were addressed and monitoring for lead-in-soil continued in the Weston area of Winnipeg and in the vicinity of scrap metal yards at North Point Douglas. In Roland, Manitoba an intensive survey of lead-in-soil was carried out in the area of a scrap metal yard which resulted in a major soil removal and replacement program.

In cooperation with the Department of Natural Resources, studies of cadmium in kidney and liver of moose throughout Manitoba were continued. The Wildlife Toxicology Fund of Environment Canada provided financial support to expand the study in both 1987 and 1988.

Forest herbicide studies continued through the Canada Manitoba Forest Agreement. Aerial applications of Roundup (Glyphosate) were evaluated for both major forest industries in the province: Abitibi-Price in Pine Falls and MANFOR in The Pas. The persistence and mobility of Roundup in vegetation and soil was studied as were the indirect effects on wildlife habitat.

Staff of this Section also provided educational support and information services in the form of lectures, seminars and presentations on terrestrial programs, including acid rain, herbicides and lead. Research information was presented to the scientific community at the 31st annual meeting of the Manitoba Society of Soil Science.

Information was provided to the public in response to many concerns on vegetation and wildlife. Staff also continue to represent Manitoba on selected provincial and national committees. However, the most significant change was the additional task of coordinating the State of the Environment (SOE) Report.

The new Environment Act, which came into effect on April 1, 1988, provided a legislated mandate to produce a State of the Environment Report within 3 years and one every 2 years thereafter. The first SOE report must be prepared by March 31, 1991. As a result of this additional activity, 3 additional staff were added to the section. Activities toward production of the first SOE are well underway.

Terrestrial Standards & Studies Reports 1988/89

88-1 Heavy Metal and Sulphate Deposition in Snow, Thompson, Manitoba, 1982-85 (McEarchern and Phillips)

88-2 Cadmium in Kidney and Liver of Manitoba Moose and Elk, 1986-67 (D. Wotton and McEarchern)

88-3 Glyphosate Residues in Vegetation and Soils of MANFOR's Egg Lake Site after Aerial Application in August 1986 (F. Phillips and McEarchern)

88-4 A survey of Lead-in-Soil at A.W. Wood Scrap Iron and Metal Company, Roland, Manitoba (D. L. Wotton and S. F. Phillips) 9pp

88-5 Effects of Aerial Application of the Herbicide, Glyphosate, on Forest Ecosystems: Part 2. A Summary of the 2.5 L/ha Spray Application 1985-88

89-1 Wood Preservative Residues in Soil, Prendiville Wood Preservers, Neepawa, Manitoba 1985 (S. F. Phillips, 1987)

HAZARDOUS WASTE / DANGEROUS GOODS

The purpose of the Hazardous Waste/Dangerous Goods Program is to administer programs under the provincial Dangerous Goods Handling and Transportation Act to ensure that dangerous goods and hazardous waste are handled, stored, transported and disposed of in an environmentally acceptable manner.

Major activities in this program area include:

- compliance program for aspects of the Transportation of Dangerous Goods regulations under provincial jurisdiction;

- co-ordination of training of dangerous goods inspectors by the Manitoba Fire College under a federal-provincial surveillance agreement;

- inspection of facilities handling dangerous goods/ hazardous waste for compliance with regulatory standards;

- registration of waste generators, licencing of waste carriers and processing of hazardous waste transport manifests;

- assessing proposals for hazardous waste management facilities and issuing operating orders, where appropriate;

- investigation of complaints of improper handling and disposal of dangerous goods/hazardous waste;

- analysis of hazardous waste samples;

- implementation of specialized analytical procedure for hazardous waste samples;

- development of new programs and legislation to achieve the overall mandate of the hazardous waste/ dangerous goods programs;

- coordination of the Department's environmental accident response system;

Some of the major activities in the hazardous waste/ dangerous goods program in 1988/89 included:

- development and implementation of a PCB storage site regulation;

- participation in a federal-provincial program to develop a standard analytical procedure for testing hazardous waste leachate;

- over 1100 enquiries were handled;

- 161 inspections related to transport compliance were conducted;

- 53 inspections related to hazardous waste compliance were conducted;

- 5 approvals/operating orders were issued to hazardous waste management facilities;

- 187 hazardous waste generator registrations were received;

- 405 manifests were received for hazardous waste shipments;

- 2 prosecutions were initiated by Departmental staff under the Dangerous Goods Handling and Transportation Act;

- 409 calls were received through the emergency reporting system;

- 225 of the emergency calls were actual environmental accidents.

The breakdown of the environmental accidents by major categories is as follows:

- 59 incidents were transport-related.
- 61 incidents involved equipment failure.
- 57 incidents occurred during handling of dangerous goods.
- 48 incidents were in the miscellaneous categories.

Departmental personnel provided on-site services at 173 incidents.

SPECIAL PROJECTS

SPECIAL PROJECTS OFFICER: R. A. STEPHENS

The Special Projects Section was established during the 1985/86 fiscal year. Its role is to provide a matrix management approach to issues which transcend traditional organization structure.

This is applied to the following initiatives:

- development of legislation;

- coordination of regulation development;

- negotiation of general agreements with the federal government, municipal corporations or other agencies; and

- management of specific high profile issues.

During 1988/89 this Section's primary objective was the implementation of the new Environment Act, which had been passed in July, 1987 and proclaimed March 31, 1988.

This Section was charged with the management of the implementation of the Environment Act, and in this regard, chaired an Implementation Committee

to oversee the transition from the Clean Environment Act to the Environment Act. In this capacity this unit coordinated the interdepartmental discussions and policy procedure development required to make the Act operational. A major part of this implementation was the provision of public information and accordingly this unit made several presentations both inside and outside government regarding the new legislation.

Presentations were made to the following agencies:

- Canadian Insolvency Association

- Manitoba Law Association
- a) Corporate Law Section
- b) Land Use Section
- c) Municipal Law Section

- City of Winnipeg

- Public Utilities Subcommittee

- Winnipeg Chamber of Commerce

- Natural Resource Institute

- University of Manitoba Faculty of Law

The Special Projects Officer during this time acted in an advisory capacity in the handling of environmental issues arising as a result of implementation of the new Act, some of which follow:

- Implementation of the Act with respect to surface water quality within the City of Winnipeg.

- Charleswood Corridor.

- Environment Act license appeals.

- Land use versus environmental considerations eg: golf courses.

- Carman diversion.

Included in the implementation funcitions were discussions with other departments to coordinate approval processes; for example, subdivisions with Municipal Planning; Ministerial Agreements with Natural Resources and Mines; the appointment of Natural Resource Officers for Environment Act enforcement and implementation of peat smoke recommendations resulting from Clean Environment Commission hearings.

The Special Projects Unit provided advice, assistance and liaison with the Attorney General's Department with respect to a number of issues that the Department was dealing with such as lead-in-soil in Roland, Manitoba, and concerns re: Shoal Lake.

The Special Projects Unit continued to provide advice and assistance in the development of regulations. The following regulations were worked on in the 1988/89 year:

- PCB Storage - passed

- Waste Disposal Grounds - continued

- Sewage from vessels - continuing

- Swimming pools - continuing

- Water quality objectives - continuing

Special Projects Unit also continued its involvement in the Health and the Environment Review Committee with emphasis this year on amendments to the Public Health Act and Recreational Camp Regulations amendments.

W. M. WARD TECHNICAL SERVICES LABORATORY

CHIEF: W. T. GRIEVE
3 Section Heads
14 Chemists
18 Technologists
2 Administrative Secretaries
1 Stores Clerk
1 Clerk

The W. M. Ward Technical Services Laboratory is organized under three Sections: Methods and Standards; Inorganic Analysis; and Organic Analysis. In addition, there is a small limnology, microscopy and hazardous waste subsection.

Operations include:

- accepting samples from the Department, other Manitoba Government departments, private citizens,

the City of Winnipeg, the R.C. M.P. and the Government of Canada;

- routine testing to determine the status and impact of pollutants on the Manitoba environment;

- special testing in the event of circumstances such as over-spraying of pesticides or herbicides, accidental spills, suspected arson, alleged solvent abuse and misuse of purple gasoline;

- developing test procedures and ensuring the accuracy of results;

- participating in national and international reference sample exchange programs;

- assisting in the establishment and enforcement of waste disposal regulations and water and sewage treatment standards; and

- testifying in court cases when laboratory test results are cited as evidence.

During 1988/89, the W. M. Ward Technical Services Laboratory accepted 23,511 samples and performed 148,470 analyses. The Department of Environment accounted for 27 per cent of these samples. These tests were used to establish and enforce environmental and workplace standards.

W.M. WARD TECHNICAL SERVICES LABORATORY ACTIVITY SUMMARY

CLIENT	No. of Samples 88/89	87/88	No. of Analyses 88/89	87/88	Units of Lab Work 88/89	87/88
Department of Environment						
A. Environmental Managment Services						
a) Terrestrial Stds. & Studies	1,048	1,121	4,152	3,716	44,500	40,401
Consulatation and Development	-	-	-	-	25,000	25,000
b) Air Standards & Studies	1,216	1,701	3,386	10,031	40,100	38,849
Consultation and Development	-	-	-	-	45,000	45,000
c) Water Standards & Studies	1,391	2,277	16,385	25,843	163,700	165,782
Consultation and Development	-	-	-	-	40,000	40,000
		14	2,178	15	68,900	7,200
d) Hazardous Wastes	266					
Consultation and Devlopment	-	-	-	-	75,000	45,000
e) Quality Control	746	693	2,595	2,120	29,500	35,711
	-	-	-	-	130,000	130,000
B. Environmental Control Branch						
a) Air Pollution Control	14	28	23	28	1,800	2,390
Consultation and Development	-	-	-	-	-	-
b) Water Pollution Control	878	1,490	7,936	13,856	76,200	88,106
Consultation and Development	-	-	-	-	40,000	50,000
c) Inspection Services	1,124	822	15,055	9,856	82,300	47,547
Consultation and Development	-	-	-	-	40,000	40,000
d) Waste Management	168	217	2,388	625	30,400	22,192
Consultation and Development	-	-	-	-	20,000	20,000
e) Pesticide Control	11	-	55	-	8,300	-
C. Workplace Safety & Health	1,475	3,235	3,378	5,149	89,800	95,894
Consultation and Development	-	-	-	-	60,000	60,000
Department Totals	**8,337**	**11,598**	**57,531**	**71,239**	**1,110,500**	**999,072**

CLIENT	No. of Samples 88/89	87/88	No. of Analyses 88/89	87/88	Units of Lab Work 88/89	87/88
Other Provincial Departments						
Agriculture	1,841	2,549	19,246	26,214	85,300	85,356
Consultation and Development	-	-	-	-	15,000	35,000
Natural Resources	1,359	1,314	16,370	17,180	150,300	84,979
Consultation and Development	-	-	-	-	50,000	50,000
Education	244	-	345	-	12,000	-
Finance	1,148	1,064	1,169	1,064	52,500	45,524
Consultation and Development	-	-	-	-	35,000	-
Government Services	269	310	1,764	2,150	31,400	30,795
Consultation and Development	-	-	-	-	15,000	15,000
Labour	29	73	29	109	5,900	13,137
Consultation and Development	-	-	-	-	5,000	15,000
Health	1,514	1,187	1,979	1,359	11,700	6,922
Consultation and Development	-	-	-	-	10,000	10,000
Highways	30	-	145	-	2,100	-
Energy and Mines	9	49	117	631	400	1,619
Crown Corporations	161	208	392	424	10,700	11,114
Consultation and Development	-	-	-	-	10,000	10,000
Municipalities	488	-	3,670	-	25,100	-
Consultation and Development	-	-	-	-	15,000	-
Other clients						
Safety and Health Committees	293	557	500	1,098	11,900	20,725
Consultation and Development-	-	-	-	-	10,000	20,000
General Public	3,370	3,600	34,445	30,227	147,500	97,500
Consultation and Development	-	-	-	-	80,000	75,000
Private Physicians	2,529	363	2,538	393	26,000	4,546
Consultation and Development	-	-	-	5,000	-	-
City of Winnipeg	647	202	2,054	426	67,700	19,627
Consultation and Development	-	-	-	-	40,000	15,000
Consultants	218	-	1,547	-	13,900	-
Consultation and Development	-	-	-	-	15,000	-
R.C.M.P.	31	26	173	123	900	1,479
Government of Canada	634	450	4,456	4,068	27,100	19,545
Consultation and Development	-	-	-	-	13,000	-
Miscellaneous	-	476	-	-	131,700	550,660
Annual Totals	23,511	24,026	148,470	161,705	2,237,600	2,237,600

*Costs paid by the Department of Finance
**Supplied a summer student-remainder paid by our Department

PLANNING, RESEARCH AND EVALUATION

DIRECTOR: JERRY SPIEGEL
4 Planning and Program Analysts
1 Administrative Secretary

In the area of ozone depletion, the Planning Branch established an Interdepartmental Committee to examine the issue and make recommendations. A policy options paper was prepared which outlined regulatory options for the control of ozone depleting substances.

Radon - An interdepartmental working group on Radon was established by the Planning Branch with representatives of the Departments of Health, Energy and Mines, and other departments. As well, arrangements were made to have a Canadian Council of Ministers of Environment survey and study of Radon in Manitoba. Elements of a radon action plan were identified and will form the basis of a comprehensive plan.

The responsibility for recycling was transferred to the Planning Branch in fiscal year 1988-89. Policy options for a recycling program in Manitoba were developed for recommendation to the Minister. As well, the Branch responded to several hundred requests for information concerning recycling.

The Branch continued to coordinate the Department's strategic planning process. The Branch was responsible for the planning of a major international conference on Sustainable Development. A program review was undertaken for the review of the Department's Emergency Response program.

The Branch continued to coordinate the Department's involvement in CCME, including the preparation of briefing books for the Minister and Deputy Minister and briefings for the the Minister and Deputy Minister. Branch members served on a variety of committees, including the Federal Provincial Advisory Committee on Environmental and Occupational Health (ACEOH), the Library Committee and the Federal Provincial Liaison Committee.

WORKPLACE SAFETY AND HEALTH DIVISION

ACTING DIRECTOR: RON GLASSFORD, P.ENG.
2 Managers
1 Administrative Officer
1 Administrative Secretary
1 Switchboard/Receptionist

The objectives of the Workplace Safety and Health Division are to eliminate worker exposure to safety and health hazards in Manitoba workplaces, to strengthen the ability of workplace participants to recognize and avoid risks, and to create positive attitudes toward occupational safety and health concerns.

These objectives are achieved through inspection of workplaces to ensure compliance with Manitoba laws, directing educational efforts to workers and employers, promoting consultation and cooperation within the workplace, and developing legislation to address and remedy unsafe and unhealthy conditions in Manitoba workplaces.

The Workplace Safety and Health Division is responsible for administration of The Workplace Safety and Health Act and the 13 regulations thereunder.

The Division also provides technical and administrative support to the Advisory Council on Workplace Safety and Health.

During the year the Division was re-organized structurally and was divided into two Branches, the Field Operations Branch, and the Support and Development Branch.

The Field Operations Branch analyzes workplace accidents, responds to emergencies, carries out regular inspections and industrial hygiene assessments of workplaces, issues improvement orders and assists in training labour and management in safety and health matters.

It also conducts inspections of mining, quarries and oil field operations in the province to ensure the legislation is complied with and the highest possible standard of safety and health for workers is provided.

The Support and Development Branch provides coordinated services required for the Field Operations Branch's programming and develops and delivers educational programming and information support to clients.

FIELD OPERATIONS BRANCH

MANAGER: G. BAWDEN
1 Head, Inspection Unit
1 Head, Industrial Hygiene Unit
1 Head, Mines Inspection Unit
1 Training/Legal Services Safety and Health Officer
1 Administrative Secretary

The Field Operations Branch is composed of the Inspection, Industrial Hygiene and Mines Inspection Units. The Inspection and Industrial Hygiene Units function with multi-disciplinary, sector based teams. Inspections of selected workplaces within the Construction Sector, Mining Sector, Industrial Sector, Logging Sector, and Service Sector are performed. Investigations and reviews of accidents, fatalities, and serious incidents are undertaken as and when they occur. The target population served is approximately 40,000 workplaces in Manitoba and a labour force of 412,000 individuals.

The role and mission of the Branch are to:

- to reduce occupationally induced adverse health effects and physical injuries to Manitoba workers;

- to ensure that workplace hazards are identified and, corrective action and compliance with The Workplace Safety and Health Act and regulations are secured;

These objectives are accomplished by:

- undertaking routine inspections of Manitoba workplaces;

- responding to accidents and complaints to determine the cause as well as measures to resolve and prevent recurrence;

- conducting serious accident, incident and fatality investigations;

- issuing improvement and stop work orders.

- preparing recommendations for prosecution and testifying at Manitoba Labour Board hearings and in court.

- encouraging the establishment of effective and responsible safety and health committees.

- providing guidance to committees, employers and workers in order to promote safe and healthy practices and working conditions;

- auditing the effectiveness of safety and health programs in workplaces;

- presenting specialized safety and health training courses to committees, workers and employers.

1. INSPECTION UNIT

HEAD: GARRY HILDEBRAND
23 Safety and Health Officers in 8 Teams
(Includes District offices in The Pas and Brandon)
1 Administrative Secretary

Compliance Inspection Activities

Field inspection activities result as a consequence of fatalities, accidents, rights to refuse, complaints received by the Unit and routine inspections. The Unit also provides a 24-hour emergency and complaint response service.

Safety and Health Committee/Representative Formation & Development

The Unit ensures the formation of Committees/ Representatives at workplaces where they are required by the Act. Safety and Health Officers assist in the development of the Committee structure by providing assistance to the Committee on a requested basis.

Legal Activities

As a consequence of compliance inspection activities, there is a legal component requirement which includes prosecutions for non-compliance with the Act/Regulations, Fatal Inquest appearances, and Labour Board Appeals of Improvement and Stop Work Orders.

Client Training

The Unit offers specialty training to employers/workers on topics which include a program for the training and licensing of blasters.

Staff Development

The Unit is actively involved in education and career development of new and existing staff.

Team Structure

The Safety and Health Officers are organized into six sectoral (two industrial, three construction, one service team) and two regional teams (Brandon and The Pas).

During 1988/89 the Unit delivered several specialized blasting courses in the Province.

Safety and Health Officers continued to carry out pro-active inspections in the autobody repair industry to prevent health related injuries to workers exposed to isocyanate containing paint during spray finishing activities.

The Construction industry received pro-active inspection activities in the area of fall arrest personal protection. To prevent fatal or serious physical injuries to construction workers in Manitoba, full body harness fall arrest protection was enforced.

Safety and Health Officers developed a Confined Entry and Chlorine Room Guideline.

Increased attention was given to confined entry equipment and procedures during inspection activities.

Inspection Unit Summary

	1987/88	1988/89
Inspections	5216	3631
Investigation		
- Complaints	910	407
- Accidents	182	187
- Fatalities	9	10
Improvement Orders	4260	3878
Stop Work Warnings	74	118
Stop Work Orders	135	122
Prosecutions	25	19
Training and Education Sessions	655	1230
Emergency Response	*	27
Client Consultation Internal/External	*	453

*Not previously reported

2. INDUSTRIAL HYGIENE UNIT

HEAD: D. NIKKEL
7 Industrial Hygienists
1 Administrative Secretary

Risk Assessment Compliance

The Industrial Hygiene activity includes monitoring, evaluating worker exposure to gases, fumes, mists, dusts and hazardous physical agents. Industrial Hygienists perform risk assessment with respect to chemical and physical agents principally in the following areas:

- chemical exposure
- noise
- radiation
- environmental conditions, such as heat and cold stress

Hazard Communication

Hygienists develop Industrial Hygiene ("Worksafe") bulletins and other documents to advise employers and workers of hazards.

Education

Industrial Hygienists participate in the development and delivery of educational programs in workplaces so as to assist employers, workers and safety and health committees in identifying and eliminating hazards.

Structure

Industrial Hygienists are individually assigned to the Inspection Teams and are responsible for ensuring implementation of health related activities in their assigned sector.

Emergency Response

Industrial Hygienists participate in the Branch's 24-hour emergency and complaint response service.

Summary	1987/88	1988/09
Industrial Hygiene Surveys Conducted	241	283

3. MINES INSPECTION UNIT

HEAD: FRANC VAZMER (Acting)
1 District Mining Engineer
7 Mines Inspectors
1 Mines Rescue Instructor
1 Industrial Hygienist
3 Administrative Secretaries

(Includes Regional Offices in Thompson and Flin Flon)

Enforcement

Mines Inspection Staff enforce Manitoba Regulation 62/87 governing the operation of mines under The Workplace Safety and Health Act and other regulations under the Act as they apply to mining operations.

Workplace Inspections

Site inspections of all mining operations on a regular basis for the purpose of compliance with the pertinent legislation and safe practices. Inspections of underground and surface operations, pits and quarries, diamond drilling sites, oil extraction operations and inactive mines were carried out.

Environmental Surveys

Surveys of environmental contaminants and physical agents which could impact on the health of workers as well as audits of monitoring programs conducted by mine operators were conducted. All Mines Inspectors are equipped to conduct preliminary investigations and determinations in this area.

Incident Investigations

Investigation of incidents which require reporting under the regulations, of complaints and of special investigations to determine the cause and remedial measures to prevent recurrence, are conducted by all field staff.

Mine Rescue

Maintenance of Mine Rescue facilities, equipment and training of crews is supervised by the Mine Rescue Instructor to ensure that highly trained and well equipped mine rescue personnel are available

to react to emergencies.

Engineering Assessments

Engineering assessments and pre-development reviews are carried out as required by the regulations, to ensure adherence to legislation, good practices and to engineer out potential problems. These range from installation of an explosive magazine or diesel unit underground to an elaborate fueling system or new mining method. The reviews typically involve both technical and engineering expertise of the Unit.

Training and Education

Training has two aspects, training of staff and consultation, instruction and promotion of safety and health awareness to mine workers and operators. Client assistance is carried out in conjunction with other activities and on the basis of recognized need or specific request.

The Mines Inspection Unit has inspectors residing in Leaf Rapids, Thompson, Flin Flon, Snow Lake and Winnipeg. A District Mining Engineer at Thompson evaluates technical data governing the operation of mines and oversees Inspectors in the area.

From Winnipeg, the Chief Mines Inspector carries out the overall direction of the Unit. In addition, the Environmental Engineer, Mines Inspector (Electrical) and Mines Rescue Instructor cover the province from the Winnipeg Office.

Summary	1987/88	1988/89
Inspections	1527	1144
Investigations		
Incidents	60	126
Complaints	36	44
Fatalities	2	4
Improvement Orders	1076	1003
Stop-Work Orders	9	19
Environmental Surveys	150	26
Training and Education Sessions	103	94

4. ADVISORY COUNCIL ON WORKPLACE SAFETY AND HEALTH

The Advisory Council on Workplace Safety and Health was established in 1977 under the authority of The Workplace Safety and Health Act. The Council advises or makes recommendations to the Minister concerning:

- general workplace safety and health issues;
- protection of workers in specific situations;
- appointment of consultants and advisors;
- any other matter concerning workplace safety and health on which the Minister seeks the Council's opinion.

The Advisory Council plays a key role in the development of workplace safety and health legislation. Its members are appointed by the Lieutenant Governor in Council to provide equal representation from each of three groups: workers, employers, and technical and professional organizations concerned with the general purposes of the Act.

During 1988/89, Council membership consisted of:

- W.N. Fox-Decent - Chairperson
- G. Collis - Canadian Manufacturers Association
- C. Grahame - Manitoba Association of Registered Nurses
- D. Herbert - Manitoba Safety Council
- R. Hilliard - Manitoba Federation of Labour (Mines Sector)
- Dr. T. Jolly - Manitoba Medical Association
- K. Mackenzie - Winnipeg Chamber of Commerce (to February 1989)
- N. McCormick - Winnipeg Chamber of Commerce (after February 1989)
- K. Moore - Winnipeg Construction Association
- W. Newman - Mining Association of Manitoba
- W. Pindera - Manitoba Teachers' Society
- J. B. Shiaro - Manitoba Federation of Labour
- F. Thomas - Manitoba Winnipeg Building Trades Council
- B. Ward - Industrial Hygiene

To assist in fulfilling its responsibilities, the Advisory Council on Workplace Safety and Health establishes committees to advise on specific matters dealing with safety and health in the workplace. During 1988/89, these included:
- Health Standards Committee;

- Construction Safety Committee;
- Industrial Committee;
- Review Committee for the Safety and Health Committee Regulation;
- Taxi Driver Safety and Health Committee.

The Advisory Council on Workplace Safety and Health held nine regular meetings in 1988/89, and reviewed a submission on Manitoba's occupational safety and health legislation prepared by the Winnipeg Chamber of Commerce. Council completed a study of safety and health conditions within the taxi industry inside the City of Winnipeg.

In 1988/89, members of the Advisory Council reviewed the issue of AIDS in the workplace and developed a report which was integrated into the Workplace Safety and Health Division's publication program.

Council met with representatives of the Workers Compensation Board (Chairperson and Chief Executive Officer and their staff) on several occasions during 1988/89 to discuss issues of mutual interest, particularly strengthening the interactions between the Workers Compensation Board (WCB) and the Workplace Safety and Health Division (WSH). The WCB/WSH Data Base Committee was formed, and an agreement that a Workers Compensation Board designate sit on the Advisory Council meetings resulted from these discussions.

SUPPORT AND DEVELOPMENT BRANCH

MANAGER: JANE RIEWE
1 Occupational Safety & Health Program Engineer
1 Senior Industrial Hygiene Advisor (Epidemiologist)
1 Industrial Hygienist
1 Legislative Coordinator
1 Legislative Research Assistant
5 Education Officers
1 Information Systems Coordinator
1 Information Data Entry Clerk
1 Internal Information Clerk
2 Administrative Secretaries

The Support and Development Branch, one of three Branches within the Division, was established in fiscal year 1988-89 through consolidation of existing staff resources. The Support and Development Branch provide coordinated occupational safety and health services for Manitoba workers, employers, joint workplace committees, sectoral committees, and the Minister's Advisory Council on Workplace Safety and Health, and maintains internal quality assurance/control functions within the Division. The Branch develops occupational safety and health legislation, and administers the Division's legislation development consultation process. The Support and Development Branch develops and delivers educational programming and informational support to clients. The Branch functions within specific project teams to coordinate core priorities with initiatives under development.

Its role and mission are as follows:

- to reduce, and prevent illness and physical injuries to workers in Manitoba workplaces;

- to strengthen the ability of Manitoba workplace participants to recognize and avoid risks and to create positive attitudes toward occupational safety and health.

These objectives are accomplished by:

- developing occupational safety and health policies, programs, legislation and standards that are effective in fulfilling the Division's objective;

- maintaining Divisional information and records management systems, and coordinating the Division's participation in departmental systems initiatives;

- serving as administrative and technical support to the Advisory Council on Workplace Safety and Health, which reports to the Minister in an advisory capacity;

- liaising with specified workplace sectors to support occupational safety and health sectoral development activities;

- participating in departmental, interdepartmental, provincial and national committees, governing/advisory boards and task forces regarding occupational safety and health;

- undertaking special projects.

Legislation/Standards Development

Provincial occupational safety and health legislation (primarily regulations and codes of practice) is developed and revised by the Branch through a formalized client consultation process on Workplace Safety and Health.

Policy/Program Development

Specific occupational safety and health policies/programs related to the Division's legislated agenda are developed in close consultation with Field Operations Branch management. Preliminary implementation of new programs flowing from regulatory requirements is undertaken by Support and Development Branch, and the programs are transferred to Field Operations Branch for delivery through staff training provided by Support and Development. Review of other jurisdiction's programs is undertaken by Support and Development Branch to identify strategic planning options and possible cooperative efforts.

Delivery of Education/Information Support

Client education and training are provided through formal classroom sessions conducted by the Branch throughout the Province. Supportive printed information/publications and films/videotapes on occupational safety and health issues and programs are developed and distributed to clients on both an unsolicited and solicited basis. Training sessions are conducted for Field Operations Branch Staff for new program initiatives and for the maintenance of existing programs.

Records Management Development and Maintenance

A central file of workplace information, including site-specific conditions and Division compliance activities, is maintained as hard copy records by the Branch. A computerized records management system is maintained by the Branch to integrate with and augment hard-copy files. Direct linkage with the Workers Compensation Board of Manitoba data base is provided by the Branch, as is access to a number of national and international occupational safety and health data bases. The Branch administers public requests for records.

Administrative/Technical Support to the Advisory Council

The Branch Director attends Council meetings, normally held once every three weeks, to provide information as required by the council. Branch staff attend or chair meetings of Council's committees held on a regular and frequent basis to assist committees in review and formation of recommendations, particularly with regard to the development of regulations and codes of practice. The Branch assists the Advisory Council and its committees in drafting correspondence and reports.

Liaison/External Communication

In consultation with labour and management clients in specific sectors, the Branch arranges and attends meetings and provides technical information and support to develop occupational safety and health sectoral committees. Branch staff draft workplace safety and health briefing and options for Cabinet and Treasury Board submissions, correspondence and speaking notes for the Minister or the Deputy Minister. The Branch Director, the Occupational Safety and Health Program Engineer and the senior Industrial Hygiene staff represent the Division at inter-departmental, provincial and national meetings regarding workplace safety and health issues and standards development.

COMMUNITY RELATIONS

DIRECTOR: MARK STEFANSON
1 Communications Coordinator
1 Librarian
1 Library Technician
1 Administrative Secretary

Community Relations is responsible for the Department's communication, education and public participation functions.

The objective of the Branch is to increase public awareness and appreciation for environmental and workplace safety and health issues. Maximum public involvement in Departmental programs is encouraged wherever possible. To meet this objective, Community Relations:

- organizes, develops and distributes informational materials including pamphlets, news releases and other documents;

- communicates through all forms of mass media;

- coordinates Departmental communication and public participation programs;

- operates a Departmental Resource Centre which serves both departmental staff and the general public; and

- acts as the coordinating center for Departmental mailing lists.

During the 1988/89 fiscal year, informational pamphlets, reports, activity sheets and posters were distributed by the Branch to other Branches within the Department for use in responding to requests for information, as well as direct distribution to teachers, students and the general public. The Branch also prepared news releases and organized news conferences on a variety of topics. Staff drafted a number of speeches for the Minister on environmental and workplace safety and health issues, supported special projects such as Environment Week and contributed significantly to the International Conference on Environment and Economy.

RESOURCE CENTRE

The Departmental Resource Centre, situated at Building 2, 139 Tuxedo Avenue, is responsible for the selection, acquisition, organization and dissemination of environmental and occupational safety and health information to Departmental staff, other government departments and the general public. Resource Centre staff are also responsible for the operation and maintenance of two satellite libraries located at the Workplace Safety and Health Division and the W.M. Ward Technical Services Laboratory. The Environment Resource Centre contains 20,000 volumes, 300 periodical titles and has access to more than 400 online bibliographic databases. The Workplace Safety and Health collection, monographs, 1500 government documents and 150 journals and newsletters.

The Resource Centre welcomed three additional staff during the summer of 1988 and was able to undertake a variety of projects and see them to completion. With the assistance of a summer student obtained through STEP, the Resource Centre was able to reorganize the journal collection and complete a holdings file of the titles. A work experience student (from Youth Business Learning and Development Centre) continued on with the journal project and completed entry of all the information into a dBaseIII+ program. Significant time saving was realized soon after this project was completed. A librarian, provided through the Volunteers in Government program, assisted in cataloguing government, technical reports and conference proceedings part-time for 12 weeks during the summer.

The Workplace Safety and Health Resource Centre was relocated to the 19th floor, 330 St. Mary Avenue. The new and larger location presented the opportunity to rearrange the collection and provide a more suitable location for information retrieval and research.

Staffing of the Resource Centre was reduced to one staff (library technician) from January to March 1989 when the librarian position was vacated.

ACTIVITY SUMMARY	1987/88	1988/89
Reference questions answered	1210	1336
Online computer searches	60	44
Inter-library loans	311	371
Books ordered	300	334
Books catalogued (including gifts)	550	411
Periodical subscriptions	300	314

THE PUBLIC REGISTRY

The Manitoba Environment Act was proclaimed on March 31, 1988 and 1988/89 was the first year of operation of the Public Registry Network.

The Manitoba Environment Act encourages public participation to achieve effective environmental decision making. Through the Public Registry the public's participation in the licensing process of new development proposals in Manitoba is facilitated.

The Main Registry is located in the Resource Centre, Building 2-139 Tuxedo Avenue and the sub-registries are located at the Winnipeg Centennial Library, Parkland Regional Library (Dauphin), Western Manitoba Regional Library (Brandon), Flin Flon Public Library, South Central Regional Library (Morden), Selkirk Community Library, The Pas Public Library, and Thompson Public Library.

Statistics on the use of the Public Registry Network have been collected and reflect an increased use and awareness of the registry. A total of 54 questions were recorded at the Main Registry with two-thirds of the questions received from the public and the remaining third from departmental staff and other government departments. Use of the sub-registries throughout the province was lower. The total number of requests for the 8 sub-registries was 37 with the most use of the registry occuring at the Selkirk Community Library.

In May 1988, the departmental librarian and the consultant hired to set up the Public Registry Network, presented a paper on the Public Registry and the participation of rural libraries in the sub-registry network to the annual conference of Public Library Services at Hecla Island.

FINANCIAL AND ADMINISTRATIVE SERVICES BRANCH

DIRECTOR: W. K. BOEHM
3 Human Resource Management / Payroll Administration staff
8 Financial and Management Support Services staff
3 Word Processing and Secretarial staff
1 Switchboard Operator/Receptionist
1 General Clerk

The Financial and Administrative Services Branch provides central administrative support services to the Department in the areas of:

- human resource management, including: personnel administration services such as recruitment, position classification/reclassification, classification series reviews, collective agreement negotiations, employee counselling, performance appraisal monitoring and staff training and development monitoring; payroll services consisting of salary administration, payroll processing, new employee orientation and personnel documentation;

- financial services including: voucher accounting, revenue accounting, accountable advances, financial reporting, cash flow forecasting, annual estimates preparation, expenditure/appropriation balance monitoring, computer coding development and contract monitoring;

- management support services including: Cabinet/Treasury Board submissions, vehicle fleet administration, office systems studies, inventory, office equipment and furniture, office space, communications equipment, signing authority delegation and climate protective clothing;

- word processing services; and

- records management and Freedom of Information Act administration.

In addition to providing Department-wide services in these specific areas, the Financial and Administrative Services Branch provides advice and support to the Minister, Deputy Minister and other management officials on administrative matters. This function is designed to ensure compliance with government and departmental administrative policies and procedures.

The Branch administered payroll services and personnel documentation for approximately 290 staff positions during the 1988/89 fiscal year. Some 40 selection boards were held during the fiscal year.

In the Financial Services area, the Branch coordinated the preparation of all 1988/89 Estimates requirements and prepared an annual cash flow forecast and quarterly updates. Monthly financial management information reports for internal management use were also prepared. The Branch administered all departmental revenue, involving deposits totalling some $3.0 million and processed approximately 10, 000 payment vouchers.

In Management Support Services, the Branch administered all departmental inventory, the total value of which is approximately $3.0 million. The departmental vehicle fleet consisting of 84 permanent and 5 personal vehicles was administered. The Branch also participated in various departmental committee activities.

In the area of Word Processing Services, the Branch processed some 1,200 documents consisting of discussion papers, reports, submissions and letters for mass distribution.

FISCAL YEAR 1988 / 89
BUDGETED VS. ACTUAL EXPENDITURE COMPARISON

Organizational Unit	1988/89 Printed Vote	1988/89 Actual Expended	Variance Over (Under)	Explanation Number
Executive Support	$275,000	$365,600	$90,600	1
Planning, Research & Evaluation	306,000	240,500	(65,500)	2
Community Relations	195,400	188,000	(7,400)	
Financial & Administrative Services	646,200	602,500	(43,700)	3
Environmental Control Services	3,543,500	3,605,400	61,900	4
Environmental Management Services	3,210,400	3,178,000	(32,400)	5
Dangerous Goods Inspectorate Training	183,000	52,800	(130,200)	6
Manitoba Hazardous Waste Management Corporation	2,200,000	0	(2,200,000)	7
Clean Environment Commission	355,700	262,700	(93,000)	8
Manitoba Environmental Council	67,600	59,100	(8,500)	9
Workplace Safety and Health	3,468,400	3,289,400	(179,000)	10
Worker Advisor Office	408,500	411,900	3,400	
Department Total	$14,859,700	$12,255,900	$(2,603,800)	

EXPLANATION

1. Variance is due to:
- overlap of Ministerial salaries for a short period of time;
- payment of a severance allowance to a senior official; and
- hosting a Canadian Council of Resource and Environment Ministers Conference, purchase of office furniture, purchase of additional stationary due to office relocation and the Minister hosting a "Town Hall" meeting in Flin Flon.

2. Variance is due to a position being vacant for a portion of the fiscal year, reduced use of external consultants and reduced out-of-province travel.

3. Variance is due primarily to a position vacancy resulting from an employee being on sick leave without pay.

4. Variance is due to the net effect of staff turnover, position vacancies, and to increased advertising costs resulting from new functions associated with the Environment Act, increased telephone costs and increased printing costs.

5. Variance is the net result of staff turnover, position vacancies, recovery of salary funds due to staff secondment, severance pay budgeted but not utilized, and lower than anticipated recovery of fees resulting from the provision of lab services to other government departments.

6. Variance is the result of fewer than anticipated training courses being carried out.

7. Funding in this appropriation is for the purpose of identifying funding budgeted for use by the Manitoba Hazardous Waste Management Corporation. Actual Corporation expenditures are recorded into the Province's accounting records by way of accounting entry at the end of the fiscal year.

8. Variance is the net result of budgeted severance pay not being utilized, and from operational change resulting from the Environment Act. These changes resulted in fewer than anticipated public meetings/hearings causing a reduction in advertising, transcription, travel and Commissioners' remuneration costs.

9. Variance is due to an employee being on educational leave and her replacement incurring a lower salary cost.

10. Variance is due primarily to the number of vacancies carried by that Branch for the major portion of the fiscal year.

FISCAL YEAR 1988/89 VS. FISCAL YEAR 1987-88 ACTUAL EXPENDITURE COMPARISON

Organizational Unit	1988/89 Actual Expended	1987/88 Actual Expended	Variance Over/ (Under)	Expl. Number
Executive Support	$365,600	$315,000	$50,600	1
Planning, Research and Evaluation	240,500	231,600	8,900	2
Community Relations	188,000	250,100	(62,100)	3
Financial & Administrative Services	602,500	610,300	(7,800)	4
Environmental Control Services	3,605,400	3,448,600	156,800	5
Environmental Management Services	3,178,000	3,092,800	85,200	6
Dangerous Goods Inspectorate Training	52,800	52,400	400	–
Manitoba Hazardous Waste Management Corp.	0	0	0	–
Clean Environment Commission	262,700	310,000	(47,300)	7
Manitoba Environmental Council	59,100	59,300	(200)	–
Workplace Safety & Health	3,289,400	3,117,700	171,700	8
Worker Advisor Office	411,900	362,900	49,000	9
Department Total	$12,255,900	$11,850,700	$405,200	

EXPLANATION

1. Variance is due to the net effect of a substantial severance payment made to a senior official; severance arrangements respecting two members of the Minister's staff; hosting a Canadian Council of Resource and Environment Ministers Conference, office furniture acquisition, additional stationary requirements due to office relocation, and a "Town Hall" meeting held in Flin Flon by the Minister.
2. Variance is due to expenditures incurred respecting the Radon program.
3. Variance is due to the deletion of 1.39 staff years and the associated program work.
4. Variance is due to a decrease in printing costs.
5. Variance is due to the net effect of employee merit increments, pay equity and general salary adjustment; increases in advertising costs resulting from the new Environment Act; increased telephone, emergency response and printing costs.
6. Variance is due to the net effect of an increase in vehicle usage, air travel, grants and analytical and computer equipment purchases.
7. Variance is due primarily to a change in function resulting from the new Environment Act resulting in fewer public hearings/meetings; hence, reduced transcription costs, advertising, travel, Commissioner remuneration, etc.
8. Variance is the net result of employee merit increments, pay equity, general salary increase and reductions in staffing and salary costs in Specialized Client Services, Construction Inspection and Training and to Government Sponsored Sector activities.
9. Variance is the net result of employee merit increments, pay equity, general salary increase and the filling of a vacant position.

FISCAL YEAR 1988/89 BUDGETED VS. ACTUAL REVENUE COMPARISON

Revenue Account Name	Revenue Source	1988/89 Estimated Revenue	1988/89 Actual Revenue	Variance Over (Under)	Expl. Number
Miscellaneous Revenue	Workers Compensation Board and miscellaneous sources	$3,949,300	$3,793,200	($156,100)	1
Shared-cost Receipts	Government of Canada Dangerous Goods Inspectorate Training	$183,000	$52,800	($130,200)	2
	Canada-Manitoba Flin Flon Agreement	0	$70,000	$70,000	3
	TOTAL	$4,132,300	$3,916,000	($216,300)	

EXPLANATIONS

1. Reduction in actual revenue is due to an adjustment to Workers Compensation Board recoveries resulting from actual 1987/88 expenditures being less than the originally based 1987/88 budget amount.

2. Reduction is due to a number of training courses not being carried out as well as a large order for printing not being ready for year end.

3. New Revenue Source.

FISCAL YEAR 1988/89 VS. FISCAL YEAR 1987/88 ACTUAL REVENUE COMPARISION

Revenue Account Name	Revenue Source	1988/89 Actual Revenue	1987/88 Actual Revenue	Variance Over (Under)	Expl. Number
Misc. Revenue	Workers Compensation Board and miscellaneous sources	$3,793,200	$3,531,300	$261,900	1
Shared-cost Receipts	Government of Canada Dangerous Goods Inspectorate Training Agreement	$52,800	$52,400	$400	3
	Canada-Manitoba Flin Flon Agreement	$70,000	-	$70,000	2
	TOTAL	$3,916,000	$3,583,700	$332,300	

EXPLANATIONS

1. Increase is due to increased recoveries for M.G.E.A. attendance; recovery of costs incurred respecting chemical and gasoline spills; a change in the rate structure for Lab User Fees and a broadened application of the fee for service; and increased recoveries from the Workers Compensation Board respecting Workplace and Worker Services. (The Workers Compensation Board reimburses the Department 100% of all costs incurred in delivering this program.)

2. This is a new revenue source.

1988-89 ESTIMATES SUMMARY

Program Area	S.Y's	Salaries	Other Expenditures	Total
Minister & Executive Support	5.26[1]	$220.9	$54.1[A]	$275.0
Planning, Research & Evaluation	6.00	243.7	62.3[A]	306.0
Community Relations	4.00[2]	136.2	59.2[A]	195.4
Financial & Administrative Services	17.00	509.8	136.4[A]	646.2
Environmental Control Services:				
- Branch Management	8.00	264.3	72.6[A]	336.9
- Pesticides	3.00	127.3	25.0	152.3
- Inspection Services	45.00	1630.9	270.0	1900.9
- Waste Management	6.00[3]	290.4	60.0[B]	350.4
- Water Pollution Control	11.00	458.3	80.0	538.3
- Air Pollution Control	7.00	298.4	35.9	333.4
- Departmental Reorganization	(2.00)[7]	(68.7)	–	(68.7)
Environmental Management Services:				
- Management	3.25	119.6	68.9[A]	188.5
- W. M. Ward Technical Services Lab.	41.00[4]	1348.0	355.2[C]	1703.2
- Air Standards & Studies and Computer Services	11.00[5]	415.8	94.1[D]	509.9
- Water Standards & Studies	4.00	183.3	55.3	238.6
- Terrestrial Standards & Studies	4.00	178.9	33.7	212.6
- Hazardous and Special Wastes Program	8.00	322.5	100.0	422.5
- Environmental Assessment & Review	3.00	115.4	15.0	130.4
- Special Projects	–	–	7.0	7.0
- Recoveries from Other Appropriations	–	–	(133.6)[E]	(133.6)
- Departmental Reorganization	(2.00)[7]	(68.7)	–	(68.7)
Dangerous Goods Inspectorate Training	–	–	183.0[F]	183.0
Manitoba Hazardous Waste Management Corporation	–	–	2200.0G	2200.0
Clean Environment Commission	4.00	225.9	129.8[A]	355.7
Manitoba Environmental Council	2.00	53.8	13.8[A]	67.6
Workplace Safety & Health:	6.00		H	
- Administration	4.00	135.2	114.5	249.7
- Support and Development	17.00	580.3	250.9	831.2
- Field Operations	49.22	2037.2	350.3	2387.5
Worker Advisor Officer	*16.44	357.0	51.5[A]	408.5
DEPARTMENT TOTAL	276.13	$10115.7	$4744.0	$14859.7

* Includes 7.00 S.Y.'s allocated to the Worker Advisor Trainee Project.

Explanations 1988 / 89 Staffing and Funding Changes

1. The Minister was shared with Manitoba Labour for 1988/89; therefore, only one half of staff year and salary was budgeted within Manitoba Environment. As well, the Minister's secretarial positions were deleted for 1988/89 - budgeted via Manitoba Labour.

A. Additional funding for postage costs that are fully recoverable by the Department of Government Services. In the past, all postage charges were budgeted and paid for by that Department.

2. Reduction of non-recurring Media Specialist term position and the deletion of a Media Specialist position to accommodate the reallocation of resources to implement the new Environment Act.

3. Reduction of staff years and associated salaries due to the discontinuance of the Hazardous Materials program.

B. Reduction of operating funds due to the discontinuance of the Hazardous Materials program.

4. Increase in staff and salary is due to the transfer of a position from the Department of Agriculture.

5. Decrease in staff years and salary due to the discontinuance of the Mobile Monitoring Unit.

C. Reduction in operating budget (net) is due to the establishment of a recovery account for Lab User Fees.

D. Reduction is due to an adjustment in the Information Processing budget as a result of a Manitoba Data Services rate reduction and an expenditure decrease related to the discontinuance of the Mobile Monitoring Unit.

E. Establishment of a recovery account re the implementation of a Lab User Fee. The fee is applicable to all provincial government departments as of August 1, 1988.

F. Additonal funding provided by the Federal Government for the second year of this three year Agreement.

G. The identification of the funding requirement for the Manitoba Hazardous Waste Management Corporation.

6. Staff year and salary reductions due to the deletion of Specialized Client Services to employer and worker groups in the industry and resource sectors; a reduction of the Construction Inspection and Training activity; and a reduction to Government Sponsored Sector activities.

H. Decrease in operating funds due to an adjustment in the Information Processing budget as a result of Manitoba Data Services rate reduction and to the deletion of specialized client services to employer and worker groups in industry and resource sectors.

7. Proposed reduction due to a reorganization of the Department of Environment and Workplace Safety and Health.